

REPORT OF THE 12TH UCLA INTERNATIONAL KIR EXCHANGE

MAY 9, 2007

KIR

45-48

Dear Colleagues:

This is the first UCLA International KIR Exchange report for samples typed in year 2007. We have now completed 12 KIR exchange studies since the program was initiated in 2004.

For the 12th KIR Exchange, 4 DNA samples (KDNA#45-48) were shipped to each laboratory on February 7, 2007. Fifty-three laboratories submitted their KIR typing results. The majority of the laboratories used commercial or "in house" developed sequence-specific primer (SSP) based PCR typing systems, and the remaining laboratories used either a sequence-specific oligonucleotide probe (SSOP) method, or a multiplexed SSP method, or the combination of these methods. The majority of the laboratories performed subtyping for 2DL5, 2DS4, and 3DP1.

The results for the 12th KIR Exchange are summarized in Table 1 and individual laboratory results reported for each DNA sample are provided in Tables 2-5. Laboratories reported discrepant results for the presence or absence of KIR2DL1, 2DL2, 2DL3, 3DL1, 3DS1, 2DS1, 2DS2, 2DS4, and 2DP1 genes. Discrepant results from the consensus typing are italicized in the listing of results (Tables 2-5), and described in the summation for each sample. Discrepancies at the allele level are not italicized. We encourage the participating laboratories to resolve the discrepancies so that the information can be shared to develop reliable KIR typing systems.

Regarding sample KDNA#44 from the previous KIR#11 Exchange study, the following comments were received from Witt and Christiansen, "As we have suggested, the KIR2DS4 probe pattern was not consistent with known alleles for KIR2DS4" and from Vilches, "We have also studied further cell #44 of the previous exchange, for which we reported a conflicting negative result for 2DS4. This cell also has a novel 2DS4 sequence, which was the origin of our discrepancy."

We thank you for your active participation in this program.

Best regards,

Marie Lau, Elaine F. Reed, and Raja Rajalingam.
UCLA Immunogenetics Center
Department of Pathology and Laboratory Medicine
David Geffen School of Medicine
University of California at Los Angeles

KIR Exchange Sample: KDNA # 0045:

The DNA was isolated from an Asian donor. The consensus KIR type is: 2DL1-2DL2-2DL4-2DL5-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS4-2DS5-2DP1-3DP1. Thirty participating laboratories (57%) reported this DNA carrying KIR2DS4 gene whereas the remaining laboratories (43%) reported that this samples was 2DS4-negative. Five laboratories (Chen, Hsu, Marsh, Noreen, Yu) found a novel 2DS4 sequence. Yu reported that this new sequence was closely related to 2DS4*003 in the tested regions of exons 3-5, with two amino acid substitutions at codon 52 (ATT>ACT, Ile>Thr) and codon 129 (AGC>AGA, Ser>Arg).

Six laboratories could not confirm the presence of 3DL1 gene in this sample. Vilches and Kusnierczyk observed discrepant results for KIR3DL1 using different typing methods, and therefore, suggested that a new 3DL1 allele was present. Trachtenberg, using a MALDI-TOF/SNP assay, and our laboratory, by direct sequencing, also confirmed the presence of a novel 3DL1 sequence. This novel allele differs from 3DL1*007 at codon 88 (CCC>GCC, Pro>Ala) (D0 domain) and at codon 166 (CTT>TTT, Leu>Phe) (D1 domain).

Therefore, the discrepancies observed with 2DS4 and 3DL1 typing of this sample could be due to the typing reagents targeted to these novel mutations.

Furthermore, Yu and Chen commented that a novel 2DL4 allele was detected. Yu reported that the new sequence was very similar to 2DL4*006 in the tested regions of exons 3-5 and exons 7-9, with two amino acid substitutions, at codon 109 (CCG>CAG, Pro>Gln) and at codon 112 (ACG>ATG, Thr>Met).

Two laboratories reported this sample as negative for 2DL2 and one laboratory reported it as positive for 2DL3 gene.

KIR Exchange Sample: KDNA # 0046:

KDNA#46 was obtained from a Caucasian individual. The consensus KIR type is: 2DL2-2DL4-2DL5-3DL1-3DL2-3DL3-2DS1-2DS2-2DS3-3DP1. This genotype occurs infrequently in Caucasians (0.4-2.7%) (1,2,3). Two laboratories reported that this DNA carried 2DP1 gene. Three laboratories reported this DNA as either negative for 2DL2, or positive for 2DL1, or positive for 2DL3.

KIR Exchange Sample: KDNA # 0047:

KDNA#43 was derived from an African American donor. The consensus KIR type is: 2DL1-2DL2-2DL3-2DL4-2DL5-3DL1-3DL2-3DL3-2DS2-2DS3-2DS4-2DP1-3DP1. This is the second most common KIR genotype found in African populations (1,4). Two laboratories reported this DNA as negative for 2DL2 and another two laboratories reported it as negative for 2DS1. One laboratory typed this DNA as positive for 3DS1 and another typed as negative for 2DS2.

KIR Exchange Sample: KDNA # 0048:

The ethnic origin of this DNA donor is Hispanic. The consensus KIR type is: 2DL1-2DL2-2DL3-2DL4-2DL5-3DL1-3DL2-3DL3-3DS1-2DS1-2DS2-2DS3-2DS4-2DS5-2DP1-3DP1. This genotype carries all known KIR genes and occurs in all populations (1, 4). One laboratory reported this DNA as negative for 2DL2 and another laboratory reported it as negative for 3DS1.

References

1. Du, Z., Gjertson, D. W., Reed, E. F., and Rajalingam, R. (2007). Receptor-ligand analyses define minimal killer cell Ig-like receptor (KIR) in humans. *Immunogenetics* 59, 1-15.
2. Niokou, D., Spyropoulou-Vlachou, M., Darlamitsou, A., and Stavropoulos-Giokas, C. (2003). Distribution of killer cell immunoglobulin-like receptors in the Greek population. *Hum Immunol* 64, 1167-1176.
3. Toneva, M., Lepage, V., Lafay, G., Dulphy, N., Busson, M., Lester, S., Vu-Trien, A., Michaylova, A., Naumova, E., McCluskey, J., and Charron, D. (2001). Genomic diversity of natural killer cell receptor genes in three populations. *Tissue Antigens* 57, 358-362.
4. Yawata, M., Yawata, N., Abi-Rached, L., and Parham, P. (2002). Variation within the human killer cell immunoglobulin-like receptor (KIR) gene family. *Crit Rev Immunol* 22, 463-482.

Table 1. Summary of the 12th KIR Exchange (KDNA#45-48)

KIR Ex.	DNA	# reporting labs	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1
#12	#0045	53	POS *00401 [1] *0040101/ *0040102 [1] *004/*006 [1] *00303/*00401/ *005/*006 [1]	POS *001-*003/ *005 [2] <i>NEG [2]</i>	NEG <i>POS [1]</i>	POS *new [3] *00202, *00801/ *009, - [1] NT [2]	POS B [15] B*002/*004/*007 [3] B*002-*004 [2] B*002, *006 [1] B*002/*004 [1] B*002-*004/*006/ *007 [1]	POS *017, - or *017, *015 [1] *002/*006- *008/*015/ *017/*018/ *020, - [1] *001/*002/ *005-*009/*015 *018/*020, *004/*009 [1] *new [1] <i>NEG [6]</i>	POS *002*007 or *010,*015 [1] *001/*009/ *013,*007 or *006/*014, *010/*016 [1]	POS NT [1]	POS	POS *002-*004 [2]	POS	POS *001 [1]	POS [15]/ NEG [23] *new [5] DEL [4] *003/*004/*006/ *007 [3] *003/*004/*006 [1] *003-*005 [1] *003-*007 [1]	POS	POS NT [2]	POS *003 [23] *00301/*00302 [2] NT [2]
	#0046	53	NEG <i>POS [1]</i>	POS *001-*003/ *005 [2] <i>NEG [1]</i>	NEG <i>POS [1]</i>	POS *00102 [1] *00102 / *00103/ *00105, - [1] NT [2]	POS B [15] B*002/*004/*007 [3] B*002-*004 [2] B*002 [1] B*002/*004 [1] B*002-*004/*006/ *007 [1]	POS *002, - [1] *002/*006- *008/*015/ *017/*018/ *020, - [1] *001/*002/ *005-*009/*015 *018/*020, *004/*009 [1]	POS *002, *007 or *010, *015 [1] *001/*009/ *013, *007 or *006, *014, *010/*016 [1]	POS NT [1]	NEG	POS *002-*004 [2]	POS *001 [1]	NEG	NEG	NEG NT [2] <i>POS [2]</i>	POS *001/*002/*004 [18] *001/*002 [2] *003 [1] *001-*004 [1] NT [2]	
	#0047	53	POS *003,*004 [1] *004, *001-*003/ *006 [1]	POS *001-*003/ *005 [2] *003/*005 [1] <i>NEG [2]</i>	POS *001, - [1]	POS *006, *002/*008 [1] *00201/*00802, *006/*010 [1] NT [2]	POS B [16] B*002-*004 [2] B*002/*004/*007 [2] B*002 [1] B*002/*004 [1] B*002-*004/*006/ *007 [1]	POS *004, *007 [1] *001/*002/ *003, *008 [1] *005-*009/*015 *018/*020 [1]	POS *003, - [1] *003, *008 [1]	POS NT [1]	NEG <i>POS [1]</i>	NEG <i>POS [2]</i>	POS <i>NEG [1]</i>	POS *001 [1]	POS *003-*007 [1] *003-*006 [6] *003/*004/*006/ *007 [6] DEL [5] *003 [2] *003/*004/*006 [2] *004,*006 [1] *003-*005 [1]	NEG	POS NT [2]	POS *003 [23] *00301/*00302 [2] NT [2]
	#0048	53	POS *002,*004 [1]	POS *001-*003/ *005 [2] <i>NEG [1]</i>	POS *002, *006, - [1]	POS *00102, *005 [1] *00102 / *00103/ *00105, *00202/ *00801/*009 [1] NT [2]	POS A,B [11] A*001, B*002 [1] A, B*002/*004/*007 [1]	POS *002 [1] *009 [1] *002/*006- *008/*015/ *017/*018/ *020, - [1] *001/*002/ *005-*009/*015 *018/*020, *004/*009 [1]	POS *002/*007 or *010, *015 [1] *001/*009/ *013, *007 or *006/*014, *010/*016 [1]	POS NT [1]	POS <i>NEG [1]</i>	POS *002-*004 [2]	POS	POS *001 [1]	POS *001/*002 [19] *001 [7] FULL [2] *001, - [1]	POS	POS NT [2]	POS *003 [19] *00301/*00302 [2] NT [2]

KEY for Table 1
 [] - number of labs reporting allele assignment/POS/NEG/NT
 POS - Presence of gene
 NEG - Absence of gene
 NT - Not typed
 italics - assignment different from consensus

KEY for Tables 2-5
 italics - assignment different from consensus
 SSP - Sequence-specific priming-based typing
 SSOP - Sequence-specific oligonucleotide probing-based typing
 RSSOP - Reverse Sequence-specific oligonucleotide probing-based typing
 SBT - Sequencing-based typing

Table 2. KIR Exchange Sample: KDNA #45

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
5488	Adams, Sharon	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	*003	SSP	
8033	Balazs, Ivan	POS	*001- *003/ *005	NEG	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	POS	SSOP	
8025	Carrington/Mar	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	DEL	POS	POS	*003	SSP	
785	Chan, Soh Ha	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
5232	Charlton, Ronald	POS	NEG	POS	POS	B*002- *004	POS	POS	POS	NEG	POS	POS	POS	*003- *005	POS	POS	*003	SSP	
3224	Chen, Dongfeng	POS	POS	NEG	*new	POS	POS	POS	POS	NEG	POS	POS	POS	*new	POS	POS	POS	SSOP, SSP	
3966	Chongkolwatana,	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	SSP	
124	Christiansen/Witt	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSO	
3632	Colombe, Beth	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
16	Cook, Daniel J.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	RSSOP, SSP	
5130	Costeas, Paul A	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	*003	SSP	
189	Crowe, Deborah	POS	POS	NEG	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	*003	SSP
8030	Davidson/Poult	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	*001	POS	POS	POS	*003	SSOP	
1108	Davis, Mary	POS	POS	NEG	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSOP	
3186	Dunckley, Heather	POS	POS	NEG	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
8038	Fernandez-Vina, M	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	SSOP	
762	Fischer, Gottf	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	*003	SSP	
8026	Gardiner, Clair	POS	POS	NEG	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
8036	Gillespie, Kath	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	*00301/ *00302	SSP	
8040	Gladman/Pellet	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	SSP	
4985	Graff, Ralph J.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	*003	SSP	
8041	Han, Hoon	*00401	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	*003/ *004/ *006	POS	POS	*00301/ *00302	SSP	
1461	Hidajat, Melan	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	*003	SSP	
615	Holdsworth/Tait	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	*003	SSP	
5000	Hsu, Susan H.	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	*new	POS	POS	POS	SSOP, SSP	
4337	Kim, Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
8037	Kotsch, Katja	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSP	
836	KuKuruga, Debr	POS	POS	NEG	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	*003	SSP	
8046	Kusnierczyk, Piotr	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	DEL	POS	NT	NT	MULTIPLEX SSP	

Table 2. KIR Exchange Sample: KDNA #45

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
5142	Marsh, Steven	*00303/ *00401/ *005/*006, -	POS	NEG	*00202/ *00801/ *009, -	POS	*002/ *006- *008/ *015/ *017/ *018/ *020, -	*001/ *009/ *013, *007// *006/ *014, *010/ *016	POS	NEG	POS	POS	POS	*new	POS	POS	POS	POS	SSOP
8027	Middleton, Der	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
733	Mytilineos, Joan	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	POS	SSP
2549	Nehlsen-Canna	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	*003	SSP
8039	Noreen, Harriet	POS	POS	NEG	*new	POS	POS	POS	POS	NEG	POS	POS	POS	*new	POS	POS	POS	POS	
4141	Pollack, Maril	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	*003	SSP
3753	Reed/Rajaling	POS	POS	NEG	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	SSP
3798	Reinsmoen, Nan	POS	POS	NEG	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	*003	SSP
1694	Sauer, Norbert	POS	NEG	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	SSP
3410	Schroeder, M.L.	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	*003	SSP
1426	Senitzer, David	POS	POS	NEG	POS	POS	*017, -// *017, *015	POS	POS	NEG	POS	POS	POS	*003/ *004/ *006/ *007	POS	POS	POS	*003	MULTIPLEX SSP
740	Snider, Denis	POS	POS	NEG	POS	B*002- *004	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	*003	SSP
702	Spannagl, Michae	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	*003	SSP
230	Thoni, Deborah	POS	POS	NEG	POS	POS	NEG	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	SSO
747	Tiercy, Jean-Marie	POS	POS	NEG	POS	B*002- *004/ *006/ *007	*001/ *002/ *005- *009/ *015- *018/ *020, *004/ *019	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	*003	SSP
4021	Trachtenberg, Eliz	*0040101/ *0040102	*001- *003/ *005	NEG	POS	POS	*new	POS	POS	NEG	*002- *004	POS	POS	*003/ *004/ *006/ *007	POS	POS	POS	POS	MALDI-TDF/SNP
8024	Trowsdale, Joh	POS	POS	NEG	NT	POS	POS	POS	POS	NEG	POS	POS	POS	DEL	POS	POS	POS	POS	SSP
5462	Turner, Victor	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	POS	*003	SSP
8028	Uhrberg, Marku	POS	POS	NEG	NT	POS	POS	POS	NT	NEG	POS	POS	POS	*003- *007	POS	NT	NT	SSP	
3775	Vidan-Jeras, BI	POS	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	SSP

Table 2. KIR Exchange Sample: KDNA #45																		
CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8023	Vilches, Carlo	POS	POS	NEG	POS	B*002, *006	POS	POS	POS	NEG	POS	POS	POS	DEL	POS	POS	*003	SSP
8047	Wassmuth, Ralf	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	POS	POS	POS	SSP
1466	Yu, Neng	*004/ *006	POS	NEG	*new	POS	POS	*002, *007// *010, *015	POS	NEG	*002- *004	POS	POS	*new	POS	POS	*003	SSOP, SBT
713	Zachary, Andre	POS	POS	NEG	POS	B*002/ *004	POS	POS	POS	NEG	POS	POS	POS	NEG	POS	POS	*003	SSP

Table 3. KIR Exchange Sample: KDNA #46

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	POS	*001/ *002/ *004	SSP
8033	Balazs, Ivan	NEG	*001- *003/ *005	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	*001	NEG	NEG	POS	SSOP
8025	Carrington/Mar	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001	NEG	NEG	*001/ *002/ *004	SSP
785	Chan, Soh Ha	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
5232	Charlton, Ronald	NEG	POS	NEG	POS	B*002- *004	POS	POS	POS	NEG	POS	POS	POS	*001- *002	NEG	NEG	POS	SSP
3224	Chen, Dongfeng	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSOP, SSP
3966	Chongkolwatana,	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
124	Christiansen/Witt	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSO
3632	Colombe, Beth	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
16	Cook, Daniel J.	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	RSSOP, SSP
5130	Costeas, Paul A	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002	SSP
189	Crowe, Deborah	NEG	POS	NEG	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002/ *004	SSP
8030	Davidson/Poult	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	*001	POS	NEG	NEG	*001/ *002/ *004	SSOP
1108	Davis, Mary	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSOP
3186	Dunckley, Heather	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
8038	Fernandez-Vina, M	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSOP
762	Fischer, Gottf	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002/ *004	SSP
8026	Gardiner, Clair	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	*001	NEG	NEG	*003	SSP
8036	Gillespie, Kath	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002/ *004	SSP
8040	Gladman/Pellet	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
4985	Graff, Ralph J.	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002/ *004	SSP
8041	Han, Hoon	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002/ *004	SSP

Table 3. KIR Exchange Sample: KDNA #46

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
1461	Hidajat,Melan	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002/	NEG	NEG	*001/ *002/ *004	SSP
615	Holdsworth/Tait	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002/	NEG	NEG	POS	SSP
5000	Hsu,Susan H.	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSOP,SSP
4337	Kim,Tai-Gyu	POS	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	POS	POS	SSP
8037	Kotsch,Katja	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
836	KuKuruga,Debr	NEG	POS	NEG	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	POS	*001/ *002/	NEG	NEG	*001/ *002/ *004	SSP
8046	Kusnierczyk,Piotr	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	FULL	NEG	NT	NT	MULTIPLEX SSP
5142	Marsh,Steven	NEG	POS	NEG	*00102/ *00103/ *00105, -	POS	*002/ *006- *008/ *015/ *017/ *018/ *020, -	*001/ *009/ *013, *007// *006/ *014, *010/ *016	POS	NEG	POS	POS	POS	*001, -	NEG	NEG	POS	SSOP
8027	Middleton,Der	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	*001	NEG	NEG	POS	SSOP
733	Mytilineos,Joan	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
2549	Nehlsen-Canna	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	*001/ *002/	NEG	NEG	*001/ *002/ *004	SSP
8039	Noreen,Harriet	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	
4141	Pollack,Maril	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
3753	Reed/Rajaling	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
3798	Reinsmoen,Nan	NEG	POS	NEG	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	POS	*001/ *002/	NEG	NEG	*001/ *002/ *004	SSP
1694	Sauer,Norbert	NEG	NEG	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
3410	Schroeder,M.L.	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002/	NEG	NEG	POS	SSP
1426	Senitzer,David	NEG	POS	NEG	POS	POS	*002, -	POS	POS	NEG	POS	POS	POS	*001	NEG	NEG	*001/ *002/ *004	MULTIPLEX SSP

Table 3. KIR Exchange Sample: KDNA #46

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
740	Snider, Denis	NEG	POS	NEG	POS	B*002- *004	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002/ *004	SSP
702	Spannagl, Michae	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002	SSP
230	Thoni, Deborah	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSO
747	Tiercy, Jean-Marie	NEG	POS	NEG	POS	B*002- *004/ *006/ *007	*001/ *002/ *005- *009/ *015- *018/ *020, *004/ *019	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002/ *004	SSP
4021	Trachtenberg, E	NEG	*001- *003/ *005	NEG	POS	POS	POS	POS	POS	NEG	*002- *004	POS	POS	POS	NEG	NEG	POS	MALDI-TOF/SNP
8024	Trowsdale, Joh	NEG	POS	NEG	NT	POS	POS	POS	POS	NEG	POS	POS	POS	FULL	NEG	NEG	POS	SSP
5462	Turner, Victor	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001- *004	SSP
8028	Uhrberg, Marku	NEG	POS	POS	NT	POS	POS	POS	NT	NEG	POS	POS	POS	*001/ *002	NEG	NT	NT	SSP
3775	Vidan-Jeras, Bl	NEG	POS	NEG	POS	B	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
8023	Vilches, Carlo	NEG	POS	NEG	POS	B*002	POS	POS	POS	NEG	POS	POS	POS	*001	NEG	NEG	*001/ *002/ *004	SSP
8047	Wassmuth, Ralf	NEG	POS	NEG	POS	POS	POS	POS	POS	NEG	POS	POS	POS	POS	NEG	NEG	POS	SSP
1466	Yu, Neng	NEG	POS	NEG	*00102	POS	POS	*002, *007// *010, *015	POS	NEG	*002- *004	POS	POS	*001	NEG	NEG	*001/ *002/ *004	SSOP, SBT
713	Zachary, Andre	NEG	POS	NEG	POS	B*002/ *004	POS	POS	POS	NEG	POS	POS	POS	*001/ *002	NEG	NEG	*001/ *002/ *004	SSP

Table 4. KIR Exchange Sample: KDNA #47

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003- *007	NEG	POS	*003	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*003/ *004/ *006/ *007	NEG	POS	POS	SSOP
8025	Carrington/Mar	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	*003	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
5232	Charlton, Ronald	POS	POS	POS	POS	B*002- *004	POS	POS	POS	NEG	NEG	POS	POS	*003- *005	NEG	POS	*003	SSP
3224	Chen, Dongfeng	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP, SSP
3966	Chongkolwatana,	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
124	Christiansen/Witt	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RSSO
3632	Colombe, Beth	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
16	Cook, Daniel J.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	RSSOP, SSP
5130	Costeas, Paul A	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003	NEG	POS	*003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	NEG	POS	POS	*003- *007	NEG	POS	*003	SSP
8030	Davidson/Poult	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	*001	POS	NEG	POS	*003	SSOP
1108	Davis, Mary	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP
3186	Dunckley, Heather	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8038	Fernandez-Vina, M	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	NEG	POS	DEL	NEG	POS	POS	SSOP
762	Fischer, Gottf	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003- *006	NEG	POS	*003	SSP
8026	Gardiner, Clair	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8036	Gillespie, Kath	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003- *006	NEG	POS	*00301/ *00302	SSP
8040	Gladman/Pellet	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	B	POS	POS	POS	NEG	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*003/ *004/ *006	NEG	POS	*00301/ *00302	SSP
1461	Hidajat, Melan	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003- *006	NEG	POS	*003	SSP
615	Holdsworth/Tait	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003- *007	NEG	POS	*003	SSP
5000	Hsu, Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSOP, SSP
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8037	Kotsch, Katja	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
836	KuKuruga, Debr	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003- *007	NEG	POS	*003	SSP
8046	Kusnierczyk, Piotr	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	NT	NT	MULTIPLEX SSP

Table 4. KIR Exchange Sample: KDNA #47

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5142	Marsh, Steven	*003, *004	POS	*001, -	*00201/ *00802, *006/ *010	POS	POS	*003, -	POS	POS	NEG	POS	POS	*003/ *004/ *006/ *007	NEG	POS	POS	SSOP
8027	Middleton, Der	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*003- *007	NEG	POS	POS	SSOP
733	Mytilineos, Joan	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
2549	Nehlsen-Canna	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*003- *006	NEG	POS	*003	SSP
8039	Noreen, Harriet	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	
4141	Pollack, Maril	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
3753	Reed/Rajaling	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3798	Reinsmoen, Nan	POS	POS	POS	POS	B*002/ *004/ *007	POS	POS	POS	NEG	POS	POS	POS	*003- *007	NEG	POS	*003	SSP
1694	Sauer, Norbert	POS	NEG	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
3410	Schroeder, M.L.	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003- *006	NEG	POS	*003	SSP
1426	Senitzer, David	POS	POS	POS	POS	POS	*004, *007	POS	POS	NEG	NEG	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*003	MULTIPLEX SSP
740	Snider, Denis	POS	POS	POS	POS	B*002- *004	POS	POS	POS	NEG	NEG	POS	POS	*003/ *004/ *006	NEG	POS	*003	SSP
702	Spannagl, Michae	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003	NEG	POS	*003	SSP
230	Thoni, Deborah	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSO
747	Tiercy, Jean-Marie	POS	POS	POS	POS	B*002- *004/ *006/ *007	*001/ *002/ *005- *009/ *015- *018/ *020	POS	POS	NEG	NEG	POS	POS	*003/ *004/ *006/ *007	NEG	POS	*003	SSP
4021	Trachtenberg, E	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	*003/ *004/ *006/ *007	NEG	POS	POS	MALDI-TOF/SNP

Table 4. KIR Exchange Sample: KDNA #47

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
8024	Trowsdale, Joh	POS	POS	POS	NT	POS	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	POS	SSP
5462	Turner, Victor	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	*003- *006	NEG	POS	*003	SSP
8028	Uhrberg, Marku	POS	POS	POS	NT	POS	POS	POS	NT	NEG	NEG	POS	POS	*003- *007	NEG	NT	NT	SSP
3775	Vidan-Jeras, Bl	POS	POS	POS	POS	B	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
8023	Vilches, Carlo	POS	POS	POS	POS	B*002	POS	POS	POS	NEG	NEG	POS	POS	DEL	NEG	POS	*003	SSP
8047	Wassmuth, Ralf	POS	POS	POS	POS	POS	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	POS	SSP
1466	Yu, Neng	*004, *001- *003/ *006	*003/ *005	POS	*006, *002/ *008	POS	POS	*003, *008	POS	NEG	NEG	POS	POS	*004, *006	NEG	POS	*003	SSOP, SBT
713	Zachary, Andre	POS	POS	POS	POS	B*002/ *004	POS	POS	POS	NEG	NEG	POS	POS	POS	NEG	POS	*003	SSP

Table 5. KIR Exchange Sample: KDNA #48

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD
5488	Adams, Sharon	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP
8033	Balazs, Ivan	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001	POS	POS	POS	SSOP
8025	Carrington/Mar	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001	POS	POS	*003	SSP
785	Chan, Soh Ha	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
5232	Charlton, Ronald	POS	POS	POS	POS	POS	*009	POS	POS	NEG	POS	POS	POS	*001/ *002	POS	POS	*003	SSP
3224	Chen, Dongfeng	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP, SSP
3966	Chongkolwatana,	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
124	Christiansen/Witt	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSO
3632	Colombe, Beth	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
16	Cook, Daniel J.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	RSSOP, SSP
5130	Costeas, Paul A	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP
189	Crowe, Deborah	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP
8030	Davidson/Poult	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001	POS	POS	*003	SSOP
1108	Davis, Mary	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
3186	Dunckley, Heather	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8038	Fernandez-Vina, M	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP
762	Fischer, Gottf	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP
8026	Gardiner, Clair	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001	POS	POS	POS	SSP
8036	Gillespie, Kath	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*00301/ *00302	SSP
8040	Gladman/Pellet	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
4985	Graff, Ralph J.	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP
8041	Han, Hoon	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*00301/ *00302	SSP
1461	Hidajat, Melan	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP
615	Holdsworth/Tait	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP
5000	Hsu, Susan H.	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSOP, SSP
4337	Kim, Tai-Gyu	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8037	Kotsch, Katja	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP

Table 5. KIR Exchange Sample: KDNA #48

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
836	KuKuruga,Debr	POS	POS	POS	POS	A, B*002/ *004/ *007	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP	
8046	Kusnierczyk,Piotr	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	NT	NT	MULTIPLEX SSP	
5142	Marsh,Steven	*002, *004	POS	*002, *006, -	*00102/ *00103/ *00105, *00202/ *00801/ *009	POS	*002/ *006- *008/ *015/ *017/ *018/ *020, -	*001/ *009/ *013, *007// *006/ *014, *010/ *016	POS	POS	POS	POS	POS	POS	*001, -	POS	POS	POS	SSOP
8027	Middleton,Der	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001	POS	POS	POS	SSOP	
733	Mytilineos,Joan	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
2549	Nehlsen-Canna	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP	
8039	Noreen,Harriet	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS		
4141	Pollack,Maril	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP	
3753	Reed/Rajaling	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
3798	Reinsmoen,Nan	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	POS	SSP	
1694	Sauer,Norbert	POS	NEG	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP	
3410	Schroeder,M.L.	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP	
1426	Senitzer,David	POS	POS	POS	POS	POS	*002	POS	POS	POS	POS	POS	POS	*001	POS	POS	*003	MULTIPLEX SSP	
740	Snider,Denis	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP	
702	Spannagl,Michae	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP	
230	Thoni,Deborah	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSO	

Table 5. KIR Exchange Sample: KDNA #48

CTR	Investigator Name	2DL1	2DL2	2DL3	2DL4	2DL5	3DL1	3DL2	3DL3	3DS1	2DS1	2DS2	2DS3	2DS4	2DS5	2DP1	3DP1	METHOD	
747	Tiercy, Jean-Marie	POS	POS	POS	POS	POS	*001/ *002/ *005- *009/ *015- *018/ *020, *004/ *019	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
4021	Trachtenberg, E	POS	*001- *003/ *005	POS	POS	POS	POS	POS	POS	POS	*002- *004	POS	POS	POS	POS	POS	POS	POS	MALDI-TOF/SNP
8024	Trowsdale, Joh	POS	POS	POS	NT	POS	POS	POS	POS	POS	POS	POS	POS	FULL	POS	POS	POS	POS	SSP
5462	Turner, Victor	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	*001/ *002	POS	POS	*003	SSP	
8028	Uhrberg, Marku	POS	POS	POS	NT	POS	POS	POS	NT	POS	POS	POS	POS	*001/ *002	POS	NT	NT	SSP	
3775	Vidan-Jeras, Bl	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
8023	Vilches, Carlo	POS	POS	POS	POS	A*001, B*002	POS	POS	POS	POS	POS	POS	POS	*001	POS	POS	*003	SSP	
8047	Wassmuth, Ralf	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP
1466	Yu, Neng	POS	POS	POS	*00102, *005	POS	POS	*002, *007// *010, *015	POS	POS	*002- *004	POS	POS	*001	POS	POS	*003	SSOP, SBT	
713	Zachary, Andre	POS	POS	POS	POS	A,B	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	POS	SSP

PARTICIPATING CENTERS

Name			City/State	Country	Name			City/State	Country
Adams	Sharon		Bethesda MD		MacCann	Eileen		Providence RI	
Balazs	Ivan		Stamford CT		Mah	Helen		Boston MA	
Carrington/Martin		Drs	Frederick MD		Marsh	Steven	Dr	London	England
Chan	Soh Ha	Prof	Singapore	Singapore	McCluskey	James	Prof	Adelaide	Australia
Charlton	Ronald	PhD	Jacksonville FL		Middleton	Derek	Prof	Belfast	N. Ireland
Chen	Dongfeng	Dr	Durham NC		Mytilineos	Joannis	MD	Ulm	Germany
Chongkolwatana/Vejbaesya		Drs	Bangkok	Thailand	Nehlsen-Cannarella	Sandra	Dr	Detroit MI	
Christiansen/Witt			Perth Aust	Australia	Noreen	Harriet		Minneapolis MN	
Colombe	Beth	PhD	Philadelphia PA		Olerup	Olle		Saltsjobaden	Sweden
Cook	Daniel J.	PhD	Cleveland OH		Pollack	Marilyn	PhD	San Antonio TX	
Costeas	Paul A.	Dr	Nicosia	Cyprus	Reed/Rajalingam		Drs	Los Angeles CA	
Crowe	Deborah	PhD	Nashville TN		Reinsmoen	Nancy	PhD	Los Angeles CA	
Davidson/Poulton		Drs	Manchester	England	Satake	Masahiro	MD	Tokyo	Japan
Davis	Mary	PhD	Stamford CT		Sauer	Norbert		Lich	Germany
Dinauer	David		Brown Deer WI		Schroeder	M.L.	MD	Winnipeg MB	Canada
Dunckley	Heather	PhD	Sydney NSW	Australia	Senitzer	David	PhD	Duarte CA	
Fernandez-Vina	Marcelo	PhD	Houston TX		Snider	Denis	PhD	Buffalo NY	
Fischer	Gottfried	Dr	Vienna	Austria	Spannagl	Michael	Dr	Munich	Germany
Gardiner	Clair	PhD	Dublin	Ireland	Stavropoulos-Giokas	Catherine	Dr	Athens	Greece
Gillespie	Kathleen	Dr	Bristol	UK	Thoni	Deborah	MD	Orlando FL	
Gladman/Pellett			Toronto ON	Canada	Tiercy	Jean-Marie	Dr	Geneva	Switzerland
Graff	Ralph J.	Dr	St Louis MO		Trachtenberg	Elizabeth	PhD	Oakland CA	
Han	Hoon	Dr	Seoul	S. Korea	Trowsdale	John	Prof	Cambridge	UK
Hidajat	Melanny		Brugge	Belgium	Turner	E.V.	PhD	Memphis TN	
Holdsworth/Tait			South Melbourne	Australia	Uhrberg	Markus	Dr	Dusseldorf	Germany
Hsu	Susan H.	PhD	Philadelphia PA		Vidan-Jeras	Blanka		Ljubljana	Slovenia
Kim	Tai-Gyu	Prof	Seoul	S. Korea	Vilches	Carlos	Dr	Madrid	Spain
Kotsch	Katja	PhD	Berlin	Germany	Wassmuth	Ralf	Prof	Dresden	Germany
KuKuruga	Debra	PhD	Baltimore MD		Watkins	David	PhD	Madison WI	
Kusnierczyk	Piotr		Wroclaw	Poland	Yu	Neng	MD	Dedham MA	
Loewenthal	Ron	MD PhD	Tel-Hashomer	Isreal	Zachary	Andrea	PhD	Baltimore MD	